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... high speed switching and/or modulation of optical ... at the central rib of the aforesaid

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... in, for example, the interferometric X-switch discussed above ... may be called a metal-oxide-semiconductor (MOS)-gate controlled DIFET lightwave modulator. ...

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A Donaldson - J. Phys. D: Appl. Phys, 1991 - iop.org

... has been demonstrated [7]. If we go back to equation (2) we can look at the possibilities for modulation in semiconductor crystals such as gallium arsenide. ...

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... quantum wells provides a large modulation of refractive ... monolithic integration with other semiconductor devices, it ... changes necessary for the X-switch geometry ...

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... or PCM modulation technique; to date, almost all of the digital central office ... FDB) lasers [33-351 and cleaved-coupled-cavity (C") semiconductor laser [36 ...

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A Irace, G Breglio, M Iodice, A Cutolo, VP ... - Silicon Photonics, 2004 - books.google.com

... optic coefficient of an indirect gap semiconductor can be ... an all-silicon waveguide hosts a X-switch, driven by a ... if the subject is not a modulator in strictly ...

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... their attention on III-V compound semiconductor materials [2 ... talk at zero bias, low modulation efficiency and ... input waveguide branch of the X-switch, both modes ...

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... ing, and have experimentally demonstrated the X switch based on ... WID's presented here use cross-gain modulation (XGM) in semiconductor optical amplifiers ...

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... The principle of a Ah- switch is the modulation of the coupling length by the ... In the case of semiconductor materials with a pin diode structure, although a ...

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... X-switch with no applied voltage, and (b) with 25 V applied ... in high speed applications, such as when connecting a laser diode to an external modulator or with ...

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... important to provide all optical modulation/switching using ... from semiconductor laser into GaAs optical switch. ... from different arms of the X-switch were coupled ...

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... life test for InGaAsP EA modulator module," in ... a different optical wavelength using a semiconductor optical amplifier ... g. ? switch port 1 h. X switch port 1 i ...

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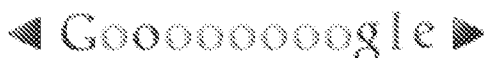
 RH Hsueh, JL Shyr, WH Wu - 2004 - [freepatentsonline.com](#)

... Assignee: Taiwan Semiconductor Manufacturing Company. ... Preferably, the X-switch 130 and the Y-switch 180 are ... is turned ON to drive a buzzer modulator circuit 248 ...

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... favorable to very high speed switching and/or modulation of optical signals passing ...

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... is superior to comparable semiconductor elec- trooptic ... The electrical-optical overlap factor, which determines the required modulation voltage, must ...

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C von Helmolt, U Krueger - US Patent 6,008,931, 1999 - Google Patents

... as auto phase modulation, cross phase modulation and four ... the light output of the semiconductor laser 26 ... frequency control 6 of the optical frequency generator ...

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... making a permanent optical waveguide in a potassium niobate substrate (for ... we can look at the possi- bilities for modulation in semiconductor crystals such ...

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... 26. An optical phase modulator comprising: (a) first and second carrier injection means formed with a semiconductor light propagating waveguide for ...

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... Therefore, the device is believed to be a good candidate to serve also as an optical external modulator. Fig. 6 shows the characteristic scattering loss versus ...

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The dimerization of the Cu ions in the spin-Peierls state of CuGeO₃ below 14 K has been determined by neutron-diffraction measurements. In addition to superlattice reflections with indices $h/2kl/2$ (h, k, l , all odd) ...

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We report neutron diffraction studies on a series of La₂NiO_{4+δ} single crystals with 0.05 ≤ δ ≤ 0.11. At 300 K, all of the crystals have an average tetragonal structure (space group I4/mmm). On cooling below 290 K, ...

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... modulator placed after the lagser (external modulation). ... made of adequately doped semiconductor material, and ... so called "parallel X switch" architecture; this ...

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... controller, SOA: semiconductor optical amplifier, Int: interleaver, TOF: tunable optical filter, EDFA: erbium-doped fiber amplifier, IM: intensity modulator, OC ...

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